

**DEVICES AND METHODS FOR PROTECTING WINDINGS AROUND A
SHARP EDGED CORE**

Abstract

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A2* Electromagnetic devices are provided including an electrically conductive core having an inner diameter defining an opening therethrough and an outer diameter, the core having sharp edges extending circumferentially around the inner diameter and around the outer diameter thereof. A plurality of polymeric protection members are wrapped circumferentially around the core and positioned adjacent the sharp edges of the core. The protection members have a short leg positioned adjacent an end of the core. The short leg may have a length selected to provide a substantially flat surface on the end of the core when the protection members are wrapped around the core. In various embodiments, an adhesive layer may be provided between the protection members and the core. A coated wire is wrapped around the core so as to be magnetically coupled thereto and around the polymeric protection members so as to be displaced from the sharp edges of the core. Polymeric protection members and methods for manufacturing such members and for fabricating devices using such members are also provided.

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